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PTO/SB/05 (01-04)

Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 1231 Attorney Docket No. UTILITY 2 PATENT APPLICATION C.E. Deibele First Inventor TRANSMITTAL Fast Faraday Cup with Hig Title (Only for new nonprovisional applications under 37 CFR 1.53(b)) ER 286963698 US Express Mail Label No. Mail Stop Patent Application Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria VA 22313-1450 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or 1. 🔽 (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) 3. 🗹 Specification Computer Readable Form (CRF) [Total Pages_ (preferred arrangement set forth below) - Descriptive title of the invention Specification Sequence Listing on: b. - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D CD-ROM or CD-R (2 copies); or - Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention ii. Paper - Brief Summary of the Invention - Brief Description of the Drawings (if filed) c. Statements verifying identity of above copies - Detailed Description **ACCOMPANYING APPLICATION PARTS** - Claim(s) - Abstract of the Disclosure 9. 🗹 Assignment Papers (cover sheet & document(s)) 4. T Drawing(s) (35 U.S.C. 113) [Total Sheets _ 10. Power of 37 CFR 3.73(b) Statement (when there is an assignee) Attorney 5. Oath or Declaration [Total Sheets 11. English Translation Document (if applicable) a. Newly executed (original or copy) Copies of IDS Information Disclosure Statement (IDS)/PTO-1449 Citations b. Copy from a prior application (37 CFR 1.63(d)) **Preliminary Amendment** (for continuation/divisional with Box 18 completed) Return Receipt Postcard (MPEP 503) (Should be specifically itemized) **DELETION OF INVENTOR(S)** Certified Copy of Priority Document(s) Signed statement attached deleting inventor(s) (if foreign priority is claimed) name in the prior application, see 37 CFR 16. Nonpublication Request under 35 U.S.C. 122 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Application Data Sheet. See 37 CFR 1.76 17. 🗖 Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation-in-part (CIP) Continuation Divisional of prior application No.: Examiner_ Prior application information: Art Unit: For CONTINUATION OR DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS \square **Customer Number:** 24298 OR Correspondence address below Name UT-Battelle, LLC P.O. Box 2008 Address One Bethel Valley Road City State |TN Zip Code Oak Ridge 37831-6258 Country Telephone 865-574-4180 Fax USA 865-574-0381 Name (Print/Type) James M. Spicer Registration No. (Attorney/Agent) | 26,096 Signature Date March 26, 2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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| FEE TRANSMITTA | | Complete if Known | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------|--------------|---------------------------|---------------------------------------------------------------------------------|----------|--|--|
| I LE INAMONIII IA | - | Application Number | | | | | | |
| for FY 2003 | | Filing Date | | | | | | |
| Effective 01/01/2003. Patent fees are subject to annual revision. | | First Named Inventor | | invent | or C. E. Deibele | | | |
| Applicant claims small entity status. See 37 CFR 1.27 | | Examiner Name | | | | | | |
| | | Art Unit | | | | | | |
| TOTAL AMOUNT OF PAYMENT (\$) 810.00 | | Attorney Docket No. 1231 | | | | <i>_</i> | | |
| METHOD OF PAYMENT (check all that apply) | FEE CALCULATION (continued) | | | | | | | |
| Check Credit card Money Other None | 3. ADDITIONAL FEES | | | | | | | |
| ✓ Deposit Account: | Large Entity Small Entity Fee | | | | | | | |
| Deposit Account 13-1958 | | e (\$) | | (\$) | Fee Description | Fee Paid | | |
| Number | 1051 | 130 | 2051 | 65 S | Surcharge - late filing fee or oath | | | |
| Deposit Account UT-Battelle, LLC | 1052 | 50 | 2052 | | Surcharge - late provisional filing fee or cover sheet | | | |
| Name The Director is authorized to: (check all that apply) | 1053 | | 1053 | | Ion-English specification | | | |
| Charge fee(s) indicated below ✓ Credit any overpayments | | 2,520 | 1812 2 | • | or filing a request for ex parte reexamination | | | |
| Charge any additional fee(s) during the pendency of this application | 1804 | 920* | 1804 | | Requesting publication of SIR prior to examiner action | | | |
| Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. | 1805 | 1,840* | 1805 1 | | Requesting publication of SIR after Examiner action | | | |
| FEE CALCULATION | 1251 | 110 | 2251 | | Extension for reply within first month | : | | |
| 1. BASIC FILING FEE | 1252 | | 2252 | | Extension for reply within second month | | | |
| Large Entity Small Entity Fee Fee Fee Fee Description Fee Paid | 1253 | | 2253 | | Extension for reply within third month | | | |
| Code (\$) Code (\$) | | 1,450 | 2254 | | Extension for reply within fourth month | | | |
| 1001 750 2001 375 Utility filing fee 770 | | 1,970 | 2255 | 985 E | Extension for reply within fifth month | | | |
| 1002 330 2002 165 Design filing fee | 1401 | | 2401 | | Notice of Appeal | | | |
| 1003 520 2003 260 Plant filing fee | 1402 | | 2402 | | Filing a brief in support of an appeal | | | |
| 1004 750 2004 375 Reissue filing fee | 1403 | | 2403 | | Request for oral hearing | | | |
| 1005 160 2005 80 Provisional filing fee | 1451 | 1,510 | 1451 2452 | | Petition to institute a public use proceeding | | | |
| SUBTOTAL (1) (\$) 770 | | | | | Petition to revive - unavoidable | | | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | | 1,300 1,300 | 2453 2501 | | Petition to revive - unintentional Utility issue fee (or reissue) | | | |
| Fee from Ext <u>ra Claim</u> s <u>below</u> Fee Paid | 1502 | | 2502 | | Design issue fee | | | |
| Total Claims 6 -20** = 0 x 18 = 0 | 1503 | | 2503 | | Plant issue fee | | | |
| Independent Claims 1 - 3** = D x 00 =0 | 1460 | | 1460 | | Petitions to the Commissioner | | | |
| Multiple Dependent = | 1807 | 50 | 1807 | 50 1 | Processing fee under 37 CFR 1.17(q) | | | |
| Large Entity Small Entity | 1806 | 180 | 1806 | | Submission of Information Disclosure Stmt | ··· | | |
| Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$) | 8021 | 40 | 8021 | 40 F | Recording each patent assignment per | 40 | | |
| 1202 18 2202 9 Claims in excess of 20 | 1809 | | 2809 | P | property (times number of properties) Filing a submission after final rejection | | | |
| 1201 84 2201 42 Independent claims in excess of 3 | 1008 | , , , 50 | 2009 | | (37 CFR 1.129(a)) | | | |
| 1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 ** Reissue independent claims | 1810 | 750 | 2810 | | For each additional invention to be examined (37 CFR 1.129(b)) | | | |
| 1204 84 2204 42 ** Reissue independent claims over original patent | 180 | 1 750 | 2801 | | Request for Continued Examination (RCE) | | | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | 1802 | 2 900 | 1802 | | Request for expedited examination of a design application | | | |
| SUBTOTAL (2) (\$) ⁽ | | Other fee (specify) | | | | | | |
| **or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40 | | | | | | | | |
| SUBMITTED BY (Complete (if applicable) | | | | | | | | |
| Name (Print/Type) James M. Spicer | Registra (Attorney) | | 26,0 | 96 Telephone 865-574-4180 | | | | |

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Date

March 26, 2004

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Ú.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Spicer

Signature